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— Dr. Anton Fritsch is making a series of galvanoplastic models of the Stegocephali found by him in the Gas-Kohle of Bohemia, which will be of much use to palæontologists, judging by a specimen which we have received. They are for sale by Dr. Fritsch, at Prague, or Mr. Jamrach, 180 St. George street, London, Nos. 1–18, at 100 marks.

— Having observed, among the Artemisias which cover immense regions of North America, neither flies, nor worms, nor any insects (also no scorpions or tarantulas), M. Poirot has suggested that the plant might prove adverse to the metamorphoses of phylloxera, by covering the ground with branches of *Artemisias.*

— The entomologists of New York have organized a society under the name of the "New York Entomological Club," and in January issued the first number of *Papilio*, the organ of the club.

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PROCEEDINGS OF SCIENTIFIC SOCIETIES.

National Academy of Sciences.—Papers read at the session commencing Tuesday, November 16, 1880, at New York:—1. Report on the dredging cruise of the U. S. Steamer *Blake*, Commander Bartlett, during the summer of 1880, by Alexander Agassiz. 2. On the origin of the coral reefs of the Yucatan and Florida banks, by Alexander Agassiz. 3. On some recent experiments in determining the electromotive force of the Brush dynamo-electric machine, by Henry Morton. 4. Measurement of new forms of electric lamps operating by incandescence, by Henry Morton. 5. On the intimate structure of certain mineral veins, by Benjamin Silliman. 6. Mineralogical notes, by Benjamin Silliman. 7. The relationship of the carboniferous Euphorberia to living and extinct Myriapods, by Samuel H. Scudder. 8. On the structure of the extinct *Carnivora* of the family *Nimravidæ*, by E. D. Cope. 9. On the Canidæ of the Miocene period, by E. D. Cope. 10. On the basin of the Gulf of Mexico, by J. E. Hilgard. 11. On the origin of the coral reefs of the Yucatan and Florida banks, by Alexander Agassiz. 12. Observations on ice and icebergs in the polar regions, by F. Schwatka. 13. On the duration of the Arctic winter, by F. Schwatka. 14. On the ellipticity of the earth as deduced from pendulum experiments, by C. S. Pierce. 15. On an improvement in the Sprengel Air-pump, by O. N. Rood. 16. On the thermal balance, by S. P. Langley. 17. On measurement of radiant energy, by S. P. Langley. 18. Causes which determine the progressive movement of storms, by Elias Loomis. 19. On the antimony mines of Southern Utah, by J. S. Newberry. 20. On the conglomerate ore deposits of the United States and Mexico, by J. S. Newberry. 21. On photographing the Nebula in Orion, by Henry Draper. 22. On condensers for currents of high potential, by George F. Barker.

23. On Sigsbee's gravitating trap, by Alexander Agassiz. 24. On the deposits of crystalline iron ores of Utah, by J. S. Newberry. 25. On the origin of anthracite, by T. Sterry Hunt. 26. On the star-list of Abul Hassan, by C. H. F. Peters. 27. Dimensions of the brain and spinal cord in some extinct reptiles, by O. C. Marsh.

PROCEEDINGS OF THE ACADEMY OF NATURAL SCIENCES, PHILADELPHIA, Sept. 28.—The following papers were presented for publication: "The Parasites of the Termites," by Joseph Leidy, M.D. "Remarks on *Bathygnathus borealis*," by Joseph Leidy, M.D. Dr. Kœnig remarked on Jarusite from Colorado.

Oct. 5.—Mr. Martindale spoke on an unusual peculiarity of growth in the chestnut. Messrs. Meehan and Potts on transformation of starch in growth. Dr. Hough called attention to the decay of *Abies nigra* in Maine and the Adirondack region. Dr. Horn on insects in wood.

Oct. 12.—Mr. Barbeck remarked on *Empusa muscæ* and Fungi on oaks. Rev. Dr. McCook recorded the discovery of cutting ants in New Jersey, and also spoke on honey ants from Australia. Dr. Kœnig described a substance composed of six atoms of lead, two of bismuth, and nine of sulphur, from Colorado, which he proposed calling Begarite. Dr. McCook and Dr. Horn discussed the distribution of insects.

Oct. 19.—Mr. Ford spoke on the natural history of the oyster.

Oct. 26.—Dr. Horn remarked on the classification of the Carabidæ.

Nov. 2.—Mr. Meehan remarked on moisture upon blossoms of *Yucca gloriosa*. Dr. Horn on *Dynastes hercules* and tannic acid of galls.

BOSTON SOCIETY OF NATURAL HISTORY, Nov. 17.—Dr. M. E. Wadsworth read a paper on the amygdaloidal structure and vein formation, with special reference to the copper-bearing rocks of the Keweenaw district of Lake Superior, being a reply to Prof. James D. Dana. Dr. B. Joy Jeffries spoke of a peculiar look of the color-blind, which is little recognized but curiously interesting. Mr. F. W. Putnam showed a carved human bone found in Maine, and remarked on its character and origin. Mr. S. W. Garman described the early stages in the development of the tree toad, and described a case of "a toad found in solid rock."

Dec. 1.—Mr. J. Orne, Jr., read a sketch of the late Mr. Geo. D. Smith. Dr. M. E. Wadsworth discussed the appropriation of the name "Laurentian" by the Canadian Geological Survey. The president gave further details of the structure of the carboniferous centipedes, to show that they should be classed as a distinct sub-order of Myriapods. Dr. E. Palmer exhibited some objects of archæological interest taken from caves in Mexico.

NEW YORK ACADEMY OF SCIENCES, Nov. 8.—Prof. Newberry made a communication on the antimony mines of Southern Utah. Prof. D. S. Martin exhibited specimens of wax from the Carnauba palm of Northern Brazil, and gave an account of its production, etc.

Nov. 22.—Miss Adelina Bierck described the volcanic eruption at Lake Ilopango, San Salvador, and Mr. A. A. Julien gave an account of a visit to the great alum cave of Sevier county, Tennessee.

Nov. 29.—Prof. H. A. Ward gave a description of the Island of Volcano.

AMERICAN GEOGRAPHICAL SOCIETY. Nov. 18. — Rev. Owen Street read a paper on the changes in the physical geography of the ancient home of man in Central and Western Asia.

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SELECTED ARTICLES IN SCIENTIFIC SERIALS.

ZEITSCHRIFT FÜR WISSENSCHAFTLICHE ZOOLOGIE—Nov. 6. On the relationship of the Cephalopoda, by H. von Ihering. The organ of smell of the land pulmonates, by Dr. D. Sochaczewer. (Refers to the structure of the feelers, and Moquis Tandon's opinion that the end or "terminal button" is the seat of the organ of smell. He then discusses the nature of the organ of Semper and of the foot-glands, and thinks that the latter are more properly organs of smell, as at the base of the excretory duct of the pedal gland are distinct ciliated sense-cells which are like the ciliated sense-cells in the skin of mollusks discovered by Flemming.) On the cases of the Trichopterous larvæ of Santa Catharina, Brazil, by Fritz Müller. (Figures and describes a great variety of singular forms of caddis-fly cases.) Researches on the Dysideidan and Phorio-sponges, by W. Marshall. On two early human embryos, by W. Krause (with excellent figures). The pedal nerve-system of *Paludina vivipara*, by H. Simroth.

THE GEOLOGICAL MAGAZINE — November. Precambrian volcanos and glaciers, by H. Hicks. The Mammoth in Siberia, by H. H. Howorth.

DATES OF PUBLICATION OF THE NATURALIST FOR 1879 AND 1880. —1879: January No., January 4th; February, February 4th; March, February 27th; April, March 26th; June, May 20th; July, June 17th; September, August 22d; November, October 25th; December, December 4th. 1880: January, January 2d; February, January 31st; March, February 25th; April, March 21st; May, April 27th; June, May 21st; July, June 18th; August, July 22d; October, September 21st; November, October 23d; December, November 25th.